

U.S. Patent Application Serial No. 10/581,920  
Amendment filed January 5, 2009  
Reply to OA dated September 12, 2008

**AMENDMENTS TO THE SPECIFICATION:**

Please amend the paragraph on page 17, line 22 as follows:

According to the invention ~~inventions of claims 1 and 5~~, a first and second relational expressions, which include unknowns of an intrinsic resistance and intrinsic maximum polarization time and a known of a tentative maximum polarization time, are solved to obtain the intrinsic resistance. The present invention provides a method of measuring the intrinsic resistance of a battery at a low rate discharge which does not clearly define a maximum polarization time, and an apparatus of the same.

Please amend the paragraph on page 18, line 4 as follows:

According to the invention ~~of claim 2~~, the method provides accurately the intrinsic resistance from the first and second relational expressions.

Please amend the paragraph on page 18, line 7 as follows:

According to the invention ~~of claim 3~~, the method defines the range of the intrinsic resistance so that the intrinsic resistance of the battery is determined accurately.

Please amend the paragraph on page 18, line 10 as follows:

According to the invention ~~of claim 4~~, the method defines the center value of the range of the intrinsic resistance as the tentative intrinsic resistance to minimize a difference between the

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intrinsic and tentative resistances so that the intrinsic resistance of the battery is determined accurately.